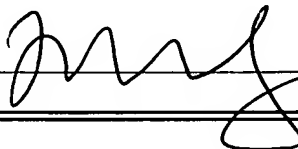


I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Certificate No. EV 336627078 US, in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: \_\_\_\_\_

11/14/03

Signature: \_\_\_\_\_



(Tamara Alcaraz)

PATENT  
Docket No. 492692000102

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Nurith KURN

Serial No.: Not Yet Assigned

Filing Date: Currently Herewith

For: METHODS AND COMPOSITIONS FOR  
LINEAR ISOTHERMAL AMPLIFICATION  
OF POLYNUCLEOTIDE SEQUENCES  
USING A RNA DNA COMPOSITE  
PRIMER

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449s. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/990,531, filed November 21, 2001, and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. § 1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

Also pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documentS listed on the attached Form PTO-1449 (page 11). Copies of these document are submitted herewith. The Examiner is requested to make these documents of record as well.

This Information Disclosure Statement is submitted:

- ☒ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
- ☐ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
  - ☐ A fee is required. A check in the amount of \_\_\_ is enclosed.
  - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of \_\_\_ is enclosed.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicant would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search

has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the fee transmittal is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorize the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 492692000102. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: 11/14/03

Respectfully submitted,

By: Cara Coburn  
Cara M. Coburn  
Registration No.: 46,631

MORRISON &  
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Attorneys for Applicant

<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>	Docket Number 492692000102	Application Number Not Yet Assigned
	Applicant  Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

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	1.	12/13/2000	60/255,638	Kurn			
	2.	04/15/1986	4,582,788	Erlich			
	3.	07/28/1987	4,683,194	Saiki et al.			
	4.	11/22/1988	4,786,600	Kramer et al.			
	5.	10/24/1989	4,876,187	Duck et al.			
	6.	04/30/1991	5,011,769	Duck et al.			
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	25.	08/05/1997	5,654,142	Kievits et al.			
	26.	09/09/1997	5,665,545	Malek et al.			

EXAMINER:	DATE CONSIDERED:
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.	

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				Applicant  <div style="text-align: center;">Nurith KURN</div>			
				Filing Date Concurrently Herewith		Group Art Unit Not Yet Assigned	
				Mailing Date November 14, 2003			
	27.	09/09/1997	5,665,845	Allman			
	28.	10/21/1997	5,679,512	Laney et al.			
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	Applicant  Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO	
	55.	04/28/1982	EP 0 050 424 A1, B1	Europe				
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	57.	12/17/1986	EP 0 201 184 A2, B1	Europe				
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	59.	03/02/1988	EP 0 258 017 A2, A3, B1	Europe				
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<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>	Docket Number 492692000102	Application Number Not Yet Assigned
	Applicant  Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

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(including author, title, Date, Pertinent Pages, Etc.)

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	84.	Ausubel, F.M. et al., Eds. (1995). <u>Current Protocols in Molecular Biology</u> . John Wiley & Sons, Inc. pp. iii-xii (Table of Contents).
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	86.	Flanagan, W. M. et al. (March, 1999). "A Cytosine Analog That Confers Enhanced Potency to Antisense Oligonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 96(7):3513-3518.
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Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>	Docket Number 492692000102	Application Number Not Yet Assigned
	Applicant  Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

100.	Mullis et al. (1986). "Specific Enzymatic Amplification of DNA In Vitro: the Polymerase Chain Reaction," <i>Cold Spring Harbor Symp. Quant. Biol.</i> 51:263-273.
101.	Mullis, K.B et al., Eds. (1994). <u>PCR: Polymerase Chain Reaction</u> . Birkhäuser: Boston, pp. xv-xvii (Table of Contents).
102.	Orita M., et al. (1989). "Detection of Polymorphisms of Human DNA by Gel Electrophoresis as Single-Strand Conformation Polymorphisms," <i>Proc. Natl. Acad. Sci. USA</i> 86(8):2766-2770.
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104.	Saiki, et al. (1988). "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487.
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108.	Scaringe, S.A. (2000). "Advanced 5'-Silyl-2'-Orthoester Approach to RNA Oligonucleotide Synthesis," <i>Meth. Enzymol.</i> 317:3-18.
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110.	Schena et al., (1996) "Parallel human genome analysis: microarray-based expression monitoring of 1000 genes" <i>Proc. Natl. Acad. Sci. USA Biochemistry</i> 93:10614-10619.
111.	Shalon et al., (1996) "A DNA microarray system for analyzing complex DNA samples using two-color fluorescent probe hybridization" <i>Genome Res.</i> 6:639-645.
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113.	Wahlestedt et al. (May 9, 2000). "Potent and Nontoxic Antisense Oligonucleotides Containing Locked Nucleic Acids," <i>Proc. Natl. Acad. Sci. USA</i> 97(10):5633-5638.
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115.	Wu et al. (1989). "The Ligation Amplification Reaction (LAR)--Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <i>Genomics</i> 4:560-569.

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<b>Form PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>				Docket Number 492692000102		Application Number Not Yet Assigned	
				Applicant Nurith KURN			
				Filing Date Concurrently Herewith		Group Art Unit Not Yet Assigned	
				Mailing Date November 14, 2003			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	03/29/2001	US 2001/0000077 A1	Engelhardt et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
<b>OTHER DOCUMENTS</b> <i>(including author, title, Date, Pertinent Pages, Etc.)</i>							
Examiner Initials	Ref. No.	Title					
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	Applicant  Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 7, 2003	

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Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	08/27/1991	5,043,272	Hartley	435	91	
	2.	09/28/1999	5,958,681	Wetmur et al.	435	6	
	3.	10/12/1999	5,965,409	Pardee and Liang	435	91.2	
	4.	03/29/2001	US 2001/0000077 A1	Engelhardt et al.	435	91.1	
	5.	11/15/2001	US 2001/0041334 A1	Rashtchian and Solus.	435	6	
	6.	5/16/2002	US 2002/0058270 A1	Kurn	435	6	
	7.	11/7/2002	US 2002/0164628 A1	Kurn	435	6	
	8.		10/100,321	Kurn			3/11/2002

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	6.	05/02/1990	EP 0 365 627 B1	Europe				
	7.	10/31/1990	EP 0 395 398 A2, A3	Europe				
	8.	08/05/1992	EP 0 497 272 A1, B1	Europe				
	9.	08/26/1992	EP 0 500 224 A2, A3	Europe				
	10.	05/26/1993	EP 0 543 612 A2, A3, B1	Europe				
	11.	08/16/1995	EP 0 667 393 A2, A3	Europe				
	12.	02/17/2000	WO 00/08208 A2, A3	WIPO				
	13.	09/08/2000	WO 00/52191 A1	WIPO				
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	16.	04/11/2002	WO 02/28876 A2, A3	WIPO				

### OTHER DOCUMENTS

*(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title

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	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
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## U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	03/13/1990	4,908,385	Bar-Tana et al.			
	2.	04/25/1995	5,409,818	Davey et al.			
	3.	12/31/1996	5,589,339	Hampson et al.			
	4.	08/26/1997	5,660,988	Duck et al.			
	5.	02/10/1998	5,716,785	Van Gelder et al.			
	6.	03/24/1998	5,731,146	Duck et al.			
	7.	12/29/1998	5,854,033	Lizardi			
	8.	10/05/1999	5,962,271	Chenchik et al.			
	9.	07/18/2000	6,090,591	Burg et al.			
	10.	10/17/2000	6,132,997	Shannon			
	11.	11/07/2000	6,143,495	Lizardi et al.			
	12.	09/18/2001	6,291,170	Van Gelder et al.			
	13.	03/19/2002	6,358,712	Jarrell et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	14.	11/18/1998	EP 0 878 553	Europe			
	15.	01/12/2000	EP 0 971 039	Europe			
	16.	07/13/2000	WO 00/40715	WIPO			
	17.	01/03/2002	WO 02/00938	WIPO			
	18.	04/11/2002	WO 02/29117	WIPO			
	19.	09/19/2002	WO 02/072772	WIPO			
	20.	12/27/2002	WO 02/103013	WIPO			

## OTHER DOCUMENTS

*(including author, title, Date, Pertinent Pages, Etc.)*

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Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>	Docket Number 492692000102	Application Number Not Yet Assigned
	Applicant  Nurith KURN	
	Filing Date Concurrently Herewith	Group Art Unit Not Yet Assigned
	Mailing Date November 14, 2003	

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	21.	Blanchard et al. (1996). "High-density oligonucleotide arrays" <i>Biosensors &amp; Bioelectronics</i> , 11(6/7):687-690.
	22.	Caruthers et al. (1987). "Chemical synthesis of deoxyoligonucleotides by the phosphoramidite method" <i>Methods In Enzymology</i> 154:287-313.
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EXAMINER:	DATE CONSIDERED:
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## U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	08/22/2002	2002/0115088	Kurn			

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	2.	06/20/2002	WO 02/48402	WIPO			

## OTHER DOCUMENTS

*(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title

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	Applicant  Nurith KURN	
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	1.	04/14/2003	2003/0073081	Mukai et al.			
	2.	04/04/1995	5,403,711	Walder et al.			

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## OTHER DOCUMENTS

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